CAPITAL AREA TIMEX SINCLAIR USERS GROUP


Seplether， 1998

#  GREENBELT PARK 



## II THIS ISSUE

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## CORTRIBUPORS

Gill Garmhart Gearge Rey Fred Machbaur Jahn Calanna Dawe Klinhtiamer

Uerman Smith Hank Dicksan WiIf Rigtar Duane Parker Thomass Rath

Pieter wan Dijk

## PRESIDEITIAL RHMBLIMGS

## Picnic

Mark your calenaiars now for the CATS picnic to be held saturday， September 24 th at the Laurel areo of the Greenbelt Regional Park．

Hamfest
CATS has a table at the 1988 Gaithersburg Hamfest that will be held Sunday，September 11th．Come out and see us and get a chance at some great buvs at the flea market！ To prepare us for buying，our resident guru，Tom Bent，will discuss at our september meeting those items that are good buys and what are reasonable prices．He＇ll olso share with us those items to steer clear of at any price．

Chip Shots
The club has two group buys for members going．one is the anti－bounce keyboard chip（8749）for the $Q L$ that prevents multi－key strikes for people like your president who will never win any touch typing contests or for those who like to have the latest technology in their QL＇s．Vernon smith is arranging the buy，so if you did not sign－up ot the August meeting please contact him for more information or to put you order in． The second chip is to improve performance of your QL disk drives if you have non－Cumana disk interface．［It will work with the Cumana but the Cumana chip is not socketed and would require some effort to replace．l Contact Tom for more information．

## IFIRDM TIIHIE <br> EIDIITIDIR

I just found out that civilien life is very much like it was in the millitary. When I got the packet of materials for the newrietter from Bill Bernhert, I found out thet I wes "in cherge" of the group buy for the keyboerd controlier chips. Sort of reminds me of the "old days", when you retrrned from vacation you found you hed ordars to the Naskan DEW Line, the Koreen DMZ, or some other plush tourite area.

I guess moet of the Beplember meeting will de incen up win news about the Cleveland Fest, but 解 the rek of stealing ther thunder, I will throw out a few of the jewels and or rumors. At found some more CLs to sell. It appears that Sinclair owed Samsung of Korea some money and Samsung was holding the computers "hostaga". The delt was peid and so 1000 more CLs are on the merket. Look for a Sincleir MSS-DOS mexhine. That's right MS-DOS. Seems Uncle Clive wented to use his name again; however, Anstrad said nothing doing. They bought the Sinclat neme along with everything else when Clive chucked it a few years ago. Incidentally, the "Sinclair" machine is just an Amstrad with ancther name. As far as I'm concerned, it's still an Arnstred!

In cesse you didn't know it, the CATS Newsletter won Second Place in the big Time Designs newsletter shoctout. We tied with ZX -Appeed (Vancouver, Brtish Columbia) and were beaten by The Hecker from Las Vegas. We beat some excellent competitors, Peter Hale's Boston Computing Society comes readily to mind, so Im thentful. Being Number 2 means that we will have to work a little bit herder during the next year. You can help me, as you've done in the pest, by keeping the articies coming. Speaking of help, we will ell heve to pitch in II we are to make OUR fest successtu. We have everything going for us in the areas of geogrephical proximity
to large population centers and the big tourist draw, the city of Westington! We'll need you creative energies if we are to matre the event a success.

W you are curious cbout what hes ahead in this lssue, I will end the suspense. George Rey hes a teaser about his CYA workshop. II you haven't attended, you should. Pieter van Dijk hes a progrem for wing the 288 in confunction with the CL to generate graphical Pieter nover ceases to amere me with the whore varlety of articles he produces. As an intro to my meeting presentation, I pur down a few of my thoughts on desktop pulliching. I will go into greater detall at the meeting. Duane Perker's Audit Committee submitted their report and, as expected, Puth's bocks passed with flying colors. Congratiations to Ruth for a job well done. Henk Dickson continues with the transcript of the "Ask Mennie Show" on herdware interfacing. Our own member, Herb Bowers', Money Mactine II is reviewed by the SMCUS Newsletter. Finally, there is information on the keyboerd controller chip group buy.
Don't forget the Pienic. It's Septernber 24th, at the Leurel Picnic Area in Creenbelt Park. Directions are on page 3. I had a lot of fun putting this lasue together and I hope you enjoy it too.


## cats 2 september

## KEY DATES

PYPTEMABR
10 Conerel Mouting
11 Canthersbung Harnfest
20 Executhe Board Meeting
23 October Newwletter DEADLINE 24 Pienic

Creenbet Perk<br>DCTORER

3 General Meeting
18 Executive Boerd Meeting
2s November Newsiatter DEADLNE

SEPTEMBER MEETING ACENDA 11:00 Herdware Workshop
12:00 CYA Worlashop
1:00 Lunch
2:00 General Mesting
2:45 Deektop Publishing from ait Edtor's Point of View-Vernon Smith

3:30 Open Discussion
4:30 Adjourn

## NEWSLETTER SLONS

Submissions for the newslatter cen be in herd copy, whth cat unns 3 tis inches wide or, preferchly, magnetic media. For the OL, microdive cartidige, $51 / 4^{\prime \prime}$ DS/DD or Cuad densty clisks, o 3 1/2" disks. For the ZX81, TSro00, or 2003, cassettes only when titles on the box.
send material to:
Edthor, CATS Mewsietter
Box 467
Faldax Suation, VA 22050
cy/A WORKSHOPby George Ray

We have a new name, now CYA stands for Cover Your Assets (not Anatomy), with a QL(eaf), of course.

Stock market data will be made available by Bob Diggs-for show or copy. Also, inflation indicators (GNP Deflator and Producer Price Index) and their uses will be discussed alongl with money (M2V) growth and GNP's (Real or Imagined). Real values refer to inflation adjusted nominal values of key indicators.

In pursuing our first objective (to determine secular economic trends), we are using S. Leeb's tour guides. These are:
(1) Real GNP > Inflation Rate (GNP Deflated)
(2) Real AAA Bond Yields > Inflation Rate (Producer Price Index Adjusted)
(3) Federal Funds Rate < AAA Bond Rate
(4) M2V must be growing, ie., Real M2V = or > Real GNP

When the above conditions are all in sync, a growing economy is sustainable and equity (stock) markets should respond bullishly. When they are not in sync, watch out for bears, or stand aside.

To meet our first objective, we are developing a data base over a two year period, smothing out the variations with an appropriate moving average (ma) using Abacus, and then translating the half dozen parameters onto Easel for comparison and canalysis. Once we have the initial data base established, a few minutes a month should keep the
data updated and investment trends should become apparent. With this road map, one might find Cibola.

## Second Annual DICNIC IN THE DARK

If you made the picnic last year, you know what a good time we had. This year's event should be even better. CATS will be furnishing charcoal, drinks, and chips. You furnish the meat and buns. Bring the wife (or husband), a friend, or kids. Everyone's welcome. See the directions below to the picnic area. Festivities start at 11 AM. The funeral pyres will be ignited at Noon and burnt offerings will commence soon atter. DON'T MISS IT!


R/ANIBLIRGB (From Pg. 1)

## - CLEVELAND FEST

The Cleveland Fest was held August 27-28. We will get a full report on activities at the meeting.

## - MEETING TOPICS

George Rey has put together the meeting topics for the next year. They will be discussed at the meeting. As usual, George has done an excellent job in identifying interesting and useful topics.

- OTHER

I would like to thank Tom for the fine presentation at the August meeting; the QL holds fewer mysteries for me nowl I want to welcome Phil Russo to the Executive Board; he's filling the seat vacated by Tom Bent as he (Tom) moved over to his newly created seat for the Immediate Past President. On a personal note, I would like to offer my condolences and those of the other CATS members to our newsletter editor, Vernon Smith, and his family on the death of his mother last month at the age of 84 .

See you at the meeting.
Bill

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# QL on the QT <br> <br> by Vernon Smith 

 <br> <br> by Vernon Smith}

## - WRITETURN

Last month I promised an in depth look at Writeturn, Sector Software's answer to the problem of "the too big spreadsheet" and how you can print it. This is a problem on printers with $81 / 2^{\prime \prime}$ carriages, if you want to label rows and include all 12 months plus a yearly total. If you run over 132 columns, condensed print won't work. What you need is the ability to turn the page $90^{\circ}$, so the top of the page prints down the slde. Last year Talent produced Sideways but its drawback was that it used a downloadable character set and many printers, including the $O L$ printer, don't have that capability. Writeturn turns the characters with the software to overcome that problem. In my estimation that's the only thing they've done right (write?). After working with Writeturn, you can really appreciate the work that Talent put into Sideways.
Writeturn has many MANOR drawbacks, which, I feel make the program useful to a very limited degree.

First, the documentation consists of a two page _doc file. This is 100 little to explain anything more than the very basic rudiments but then, considering how crude and how few features the program really has, it is probably all they could say.
Second, the program has only 6 options for number of rows on a page (48,57, 64, 72, 96, and 192). Up to 250 columns are allowed. If your spread sheet has the maximum number of rows Abacus will allow, 255, or is over 250 columns, you are out of luck. Also, it puts all 192 rows on ONE page. With this option the rows are squeezed down so much that the spreadsheet is com-- pletely unreadable!

Third, the file must be titled as "si_lis"; therefore, to run the program more than once, you must use several disks. Isn't that smart? Hav-
ing to title the file "si" can be confusing since it prevents you from using a unique file identifier.
Finally, I get solid cursor marks at the end of each line and on blank lines, in the left hand margin. Why? How do I get rid of them? Who knows. The "docs" certainly don't say. If I ever get time I may write Sector to find out, but then I don't want to waste 45 cents on the postage.
If you are getting the idea that I think this program is a waste of money, you are correct. I wish I could get mine back. I take back everything I said about Sideways, now that l've used Writeturn.

- text ${ }^{87}$

I've received text ${ }^{87}$ and I am in the process of learning how to use it. As Peter Hale's review in the June issue indicated, it is a large and complex program which takes some time to learn to use correctly. As soon as I do, I will be able to give you some tips. There are some features about the program that really intrigue me. You can have up to 4 columns on a page, just like a newspaper, which ought to make production of the newsletter a great deal easior. Fountedy, the printer driver, has been supplemented by 2488, a set of drivers for 24 pin printers. The Epson GQ3500 laser printer is also supported and they will produce others on request. Another nice touch is the recognition that there will be North American buyers so a price list is quoted in dollars and they will accept dollar denominated postal money orders. I'm eagerly looking forward to the introduction of their graphic printer driver, fountextss. If it can be integrated into text ${ }^{87}$, there is the potential for having a first rate desktop publishing system for the OL!
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## - IBM Copy

Last month, in the Editor's column, I indicated that the IBM Copy program is extremely useful and easy to use. If you think that you will have to read a MS-DOS disk on your OL, this is the ONLY utility you need. This is my idea of a "must have" program.

## - What about our group?

I was hoping to review Tating the Quantum Lasp by Mike deSoza in a future issue. I wrote to him stating that our user group contained more OL users than any other and, therefore, we might be a fertile ground for sales of his book. He replied that they don't send out review copies to "groups such as yours"(?) and they wanted me to be happy with a favorable review by Mark Fendrick in Computer Shopper. Well, I'm not. I happen to feel I'm smart enough to make up my own mind. Since they want me to review the book using a magazine article, I will Out of 14 chapters, only four concern themselves with the Psion software and two more address printer and monitor compatibility. So, if you want to pay $\$ 26$ for six chapters of information, some of which may already be covered in the User Guide, go right ahead. I certainly am not.

## - ZX8301...where are you?

Let me close with a hot rumor (or since it's from England is a rumour?). Syd Day from QUANTA indicates that additional ZX8301 chips are going to be produced. In my dealings with PV Tubes and Strong Computers l've found out that at the present time there are none available. If the QL is to stay alive, a supply of these chips is mandatory. I hope this rumor is fact!
Don't forget the picnic on the 24th. Till next month.


## GRADHICS AND THE $\mathbf{Z 8 8}$ by Pieter van Dijk

The 288 has no facilities to show graphics on its screen. But in combination with a gLit is possible to get uraphic output from a Basic procram, run on the 288: What you need is a whie fxom the 288 to the $S E R$ port on the $Q$ ara tie TURPO compiler to compile a littさa program on the OL.

The Superbasic progran for the gL is shown belon:

| 200 | DTE AS (1), ESO50) |
| :---: | :---: |
| $1: 0$ |  |
| 120 | COHTRMD JISE |
| 130 | TYPE_IN"INK40,0:"\&CHRS(10) |
| 149 | Riseat jugy |
| 130 | AS=IMKEYS (\#3) |
| 100 | $\cdots \mathrm{as}=\mathrm{CHR}$ (13) |
| 270 | AS=IMREYS (\#3) |
| +80 |  |
| 190 | IP AS $=$ CHRS (163) : EXITIoop: END IF |
| 200 | ES施 |
| 410 | B $\$=3 \$ 8 A \$$ |
| 220 | Eid IE |
| 230 | END REPeat loon |

 $0)$

$$
\begin{aligned}
& 250 \text { TYPE in "UNK\#O, } 7 \text { "\&CHRS (10) } \\
& 260 \text { CLOSE\# }
\end{aligned}
$$

This prograt monitors SER2 and redirects every string it receives to superbasic chamrel\# 0 as if th was typed in on the QL keyboard. This is done with the TURBO commands TYpe in and comaird LIME which are included in the fontime
Extensions of TURBC. In order to make the comand lines invisibie INK\#0, 0 is used at the start of the program and INK\#0,7 at the and to rake input visible again. Line 150 and 170 read inconing characters. Line 160 checks for the end of a
string and ine 190 cerects the end of the procram on the $2 \& 8$ (Char 163 is used for this purpose!.

When preparing for compiling the Superbasic windows and ink colours have to be set as they are copied into the compiled prograw. I used the following:

HIADOW 512,256,0,0:INK 7:PAYER 0:CLS INK\#O, 0:CHARGE

In the TURBO Panel the number of windows is set to 2 (\#0 and \#1), and the compiled file is called GRAF_EX

The following Boot Program can be used to start the compiled program:

```
    100 A=RESPR(5534):LBYTES
ELP1_RUNMTME_EXTS,A
    110 CALL A
    120 WIHDOY 512,256,0,0:PAPER 0:INK 7
    130 WINDOWH0,6,10,0,246:PAPER#0,0:IN-
K#0,:
140 CLS:CLS*O
    150 EX FLP1_GRAF_EX
```

Lines 120 to 140 are used to tidy up the windows and line 150 executes the program. The conand Ex must be used so that it can multitask with Superbasic. If more than one ran is made use RuN 120

An example of a program on the 288 is shown below:

```
    100 C=OPENOUT (":COM.0")
    110 PROC:("CLS:SCALE2000,-1600,-1000-
")
    120 FOR L=0 TO 2*PI STEP PI/25
    130 X$=STRS(INT(400*COS(L)))
    140 YS=STRS(INT(400*SIN(L)))
    150 PROCCir(XS,Y$,"500")
    160 HFXE! + 
    170 PROCt(CHRS(163))
    180 GHOSE#C:ENO
    190 DEFPROCt(AS):PRINT#C,AS:ENDPROC
    200 DEE PROCCIY(XS,Y$,RS)
    210 PRINT#C,"CIRCLE"+XS+","+Y$+","+RS
    220 EMDPROC
```

Line 100 ppens a channel to the serial port and 180 closes it again. Command strings for the Qu are processed with the procedures $t$ and cir. The calculations are done by the 288 in lines 120 to 160 . Line 170 indicates the end of the program (char 162 is "'" in the QZ88). As can be seen in this program any command can be given to the QL and with the use of procedures it is not complicated.

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## DESKIOD DUBLISHING by Vernon Smith

A newsletter editor's viewpoint

Desktop publishing is one of the hot personal computer areas these days. Computer magazines are filled with dtp ads. We look at them, with the slick looking page layouts, and say to ourselves, "Hey, I can do that. No sweat!" So we go out and buy the program, load it up, and find that it is a lot harder than it looks. Sound familiar? I have found out that there are several rules that control the success of any desktop publishing venture.

## - RULES FOR SUCCESS

First, there must be an actual need for dtp, such as a newsletter, rather than a future need. Why? The deadlines of a real requirement speed up the learning process. One big problem, at least for me, is that I'm lazy. If I can't get the hang of how to use a program very quickly, I lose interest and consign it to the "file" box. If I have to produce something, I am forced to learn how to use the software. Second, it pays to be flexible when using dtp. Use it when it makes sense but be aware, that in some instances, the old "paste up" method can save time.

## - NEED SPEEDS LEARNING

I got into dtp over a year ago. I started with the program from Gap but it was so crude that I immediately lost interest. Furthermore, I had no real requirement for its use. Soon after that, Digital Precision introduced Desktop Publisher. About that time I took over the newsletter from John Riley, so it was learn how to use DTP or fall on my face. As far as I'm concerned, DTP was very easy to use even though the documentation, especially in the text handling area, left a lot to be desired. Later in the Fall, version 2.0 of DTP was introduced and it overcame most of the shortcomings of version 1.0 . Importation of text files (Quill, The Editor, or ASCII) is difficult to impossible and the instructions in the user's manual for this function are so sparse and poorly written as to be worthless. Why they skimped in this area, I don't
know, since externally produced files are probably the easiest way to prepare text for publication. I will concede, however, that DTP has the most features and is the easiest to use of all of the dip programs for the QL; however, the Deluxe Edition for 512 K QLs costs over $\$ 100$. When compared with dtp programs available for other computers, is a bit pricey, especially when you consider how poorly it handles imported text files.

## - DON'T WASTE TME

Which brings us to the second rule. Because of the text entry problems mentioned above, I usually print out a file and then paste it up. This is especially true since I bought a NEC P2200 24 pin printer. For large blocks of text, its letter quality printing looks better than any of DTP's variety of styles. When I first got DTP, I slavishly tried to produce entire pages using it but found that it was taking me far too long to get the newsletter out. Volunteers usually have jobs to pay the rent! I look at this time as well spent, though, since it quickly gave me a familiarity with the program that a casual user wouldn't get. That's the big picture, but how is the CATS newsietter produced?

## - THE CATS NEWSLETTER

The newsletter really starts at the Fairfax Station mailbox. As I read the newsletters, I decide if there are any articles which I want to reprint. If there are, I Xerox them so I can paste them up. These, and the member's articles, constitute the "meat" of the issue.

Then there is what I call "boilerplate", those pages that change very little from issue to issue: the cover, editorial, and front pages. The cover page requires a meeting date change and then its ready to print, I save the front page till last so my contents and

## cats 6 september

contributor listing will be correct. Presidential Ramblings is pasted in. On Page Two, I change the agenda and the month at the bottom and then it is ready because I paste in the editorial. Since I refer to the contents, it is prepared after the rest of the newsletter is finished. DTP can hold 2 pages in memory, so I have a page of common items that appear in the newsletter, but not in the same place each issue. The information blocks for newsletter submissions, advertising rates, and the tape library are examples of this. I load this page and then "cut and paste" the information to wherever I need it. I take the printed pages and the hardcopy from contributore and other newsletters, and paste them onto 11 " $X$ 17" sheets, which, when folded in half, give the required $8 \quad 1 / 2^{\prime \prime} \times 11^{\prime \prime}$ pages.
That's how the newsletter is assembled using a desktop publishing program, but, if you're not a newsletter editor, how can you use it? In all honesty, at the present time it's a solution looking for a problem: however, every day there are more usex being "discovered". Use your imagination. Prepare a cover for a report that you use at work, layout a flyer for soccer league signups, or design a bulletin board notice. Here's one. Become the CATS Newsletter Editor when I burn out!

## - THE FUTURE OF dtp

As far as dtp programs on the QL, I wouldn't expect Digital Precision to further upgrade DTP. There just isn't enough financial return for the amount of effort required. For the sarne reason, I doubt that another program will come on the scene. We will just have to be happy with what we have, which is a great deal.


WRxl6 REVISITED!
with F. Nachbaur
From ZX-Appeal, Vancouver SUG, April, 1938
Conciuded from the July and August 1988 issues and delete the demo portion leverything between and including lines 7 through 540). Leave line 5 in place. Enter line 4,

## 4 FEM BIFLOT

Ferform the following POKE 5:
POKE 16645,4
PCNE 16646,1
POLE 1ó419,4
Then delete line 5. This will "melt together" the RE: lines 2 and 3, givirce us enough room for the modified service routines. It also keeps us from geiting stuck in the long REM lines at the bejoming. Rerofeforth, you say replace line 4, but not Geifte it. If you do you'll have to pull the plue te regan control. If you ever get in trouble after LIST, and the listirg is sturk, LIST 4 and then fork 16419,4. That'll lix it.

## FREM THE GROLND UP

If you start from scratch, enter a 1 REM line exatily 128 characters long. This is four full lines on :ite sereen, lookirg like this:



XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
$x \times x \times x \times x \times x$
Enter another SEM line, numbered 2 , long enough to hold at leas: Du- present operating system. To leave some e!bow-room for any of your additions later, make it, say, 512 bytes long. (5AST mode will make this somewhat quicker.) Then enter the loader program of Listing 2. RUN this to input the values of Table 2 into the 1 REM, and the values from table 3 into the 2 REM.

## THE BASIC

Now enter the BASIC program of listing 4. After saving with RUN 9990, the program will auto-run.

Have fun with this. As a final note, let us know if you want to see more reports of new developments. Some possible topics that already exist include: Using SHR-Extended EASIC from machine-code, to end up with a smocth, beisevable m-res :mplementauon of the classic SPACE INVADERS game. Using "Gluctr" mode with Wraxio, or with quasi-hi-res progratis. Prlkiting characters in high-res.

So once again it's uf to you; what do you warit us to shiare with you?

## THEORY

Listing 3 shows the disassembly of the modified core
by W. Rigter
and service routines. To make the dual display work, we first have to make some changes to the WR $\times 16$ core. From 40BAh to 40C5, we have added a new routine which checks bit 0 of FKAMES. The subspoverit commands cause HL to be loaded with 2000 (HRDF \#1) or 3000 h (H2DF \#2), dependirg on the state of this bit.

When viewing only one display file, the command at 40ED is changed from AND 01 to either LD A, 00 or LD A,O1. These commands take the same time to execute, so this was dust an easy way to insure that the loop will run the same regardless of whether we've viewing just one, or both of the display fies.

Note that the command at 40AD was changed, and a NOP was added at 40 CS to compensate for the extra time it takes to run our new code. If you count T-states, you'll see that the overall timing remains exactiy the same.

Note also that we load B with only 80 h at 4 AE E, since we are only displaying 128 hi-res lines.

The only other changes are at 40E3 and $40 E D$. These determine how many low-res rows are displayed. Since the hi-res portion takes 16 rows, we can display 8 loces rows for the same 24 -row overall display size. However, one row is lost in returning from our hi-res systemi this is why we have to kill some time at the start of DP-3, to wait for the start of the first line in the next available row.

The value loaded into $D E$ at $40 E 3$ represents 8000 h plus the offiset from the start of the normal display tile, to the first byte of the starting low-res row to be displayed. The command at 40ED loads $E$ with one more than the number of low-res rows, and $C$ with 7 (aiways).

Just as our service routine modifies the command at 405D to change viewing modes, the commands at 4CE3 and $40 E D$ could be changed to give a low-res "windowing" option, allowing you to scroll the entire low-res display up and down in the 7 -row lowres portion of the display. Use a SYNC routine similar to ours here, to insure that both changes are made right after a vertical sync oulse, since you want to be sure that both changes will be in place by the start of the next field.
table il wraldove cone (decimal)
START=16514 BYTES=120
232:0791000:000:000:0001000,0001 $000,000,000,0001000 ; 000,000 ; 0001$ $0001000100010001000: 000100010001$ $000,0001000,10001000,000: 0001000:$ 000:000,221,235:243,082,007,071: $.00010162^{253: 198,239: 080: 032: 2531}$ $00010161253: 19812391080: 032: 2531$
00611761017103210001033100010321 00611761017103210001033100010321
$221: 03311921064: 02410001017: 0321$ $221: 033: 1921084 ; 0241008: 017: 032:$
$000: 005,202: 207: 0641025,124,237:$ $000: 005: 202: 207: 064: 0251 / 241237!$
$071: 125: 1951 / 301192: 237: 082: 237 ;$ $071: 125: 19511301192: 237108212371$
$082: 0351042101210641017124711301$
$025: 10521430123710710812451001$ $042: 0351042101210641017124711301$
$025: 0621030: 237: 071: 06212451001:$ $007: 002$ :205,181:0021205:146,002: 205,0321002:221,033:166:0641/195: 164,0021221:033;166106412011062: 030:237:071,221,033:129:0621201,

TABLE 21 BI-PLOT WRX16 CORE START=16514 EVTES=128 237:079:0001000:000:0001000:0001 $000: 000,100010001000,000 ; 00410001$ $000: 000: 000: 000,000,000100010001$ 00010001000100010001000100010001 $0001000: 221: 233_{1} 2431062100710711$ $00010161253: 1981242: 060103212531$ 0
00411241017103210001033100010321 00611281017103210001033100010321 $0581052: 064,23010011023102310231$ $023: 132110310001221: 1033120410641$
$0241008: 017103210001005120212191$ $0241008: 017: 0321000: 005120212191$
$0641025: 12412371071: 125119511301$
$182: 291092: 23710021035104210121$ $0641025: 124123710711125119511301$
$18212971082 ; 23710821035104210121$ $064101710491130102510621030: 237$; 071 1082:245:001:007,008:2051181; $00212051146: 00212051032: 00212211$ 033116610441195 ;104;0021000:1004

## 

## CATS records in excellent shape


which plugs into the port behind the 2068 and which will allow the proper cable to be connected to the printer. These interfaces are widely advertised in Sinclair literature, and are priced around $\$ 100$.

Also, it is necessary to obtain "printer driver" software. This usually comes with word processing software (such as "M-Term" for the 2068), and permits the computer to intelligently operate the printer.

Or, for a wild solution, it is possible to modify a Sinclair 2050

## ASK MANNIE--Version 2

NOTE: The following is a continuation of the $O \& A$ session originated in July by CATS member MANNIE QUINTERO, the coverage of which began in the August, 1988 CATS Newsletter.

Q: How does one hook up a 2068 computer to a Seikosha SP-1000 printer?
A: First, it is necessary to determine if the Siekosha is a serial or parallel printer. The consensus is that it is probably serial.

Then, it is necessary to acquire a hardware interface device (or card)
adding a serial port and connecting the proper cable to the serial printer. The end result will be a modem which can be used for either printing applications or for telephone communications. TIME DESIGNS Magazine. March/April 1988 issue, contains an article on how to accomplish this.

Q: Can I connect my QL printer to a 2068, and if so, how?
A: We're not sure what a "QL printer" looks like. However, to make

## cats 8 september

this combination work, it is certain that a parallel/serial converter (or card) would be needed for the back port on the 2068. This would con vert the output of the 2068-normally intended for the 2040 printer--into a form that an "alien" printer could use.

Q: How can I connect my floppy disk drives to my 2068 and my QL for little money?
A: Since low-cost computing is the mission of Sinclair hobbiests worldwide, the question is a challenging one. However, there doesn't seem to be any way of accomplishing this particular task without some outlay of funcs. What is needed is a pair of disk interface carchs, one for each of the computers. These disk interface cards are available in many flavors, but usually cost around $\$ 200$.
With some knowledgeable modifications, it should be possible to fix one cable so that it will operate either one disk drive or the other. It will never be possible, however, to connect the disk drive to both com. puters at the same time, unless you want to install an expensive dataswitching box, so you can alternate

## Continued on Page 10

## TAPE LIBRARY INFORMATION

The C.A.T.S. tape library is available to all full ( $\$ 18$ ) members. Prices, per cassette, are $\$ 3.00$ by mail or $\$ 1.00$ at the meeting.
C.A.T.S. does not have publio Domain software for sale.

Mail order requests, and submissions for publication, should be sent to the tape librarian:

## Rev. John Riley

120 N. Fairlawn Dr.

## Carroliton, GA 30117

Checks or money orders should be made payable to C.A.T.S.

We will continue to "compensate" contributors with one free cassette from the library.

# "DH BANNA...GIVE ME A LETTED" A Software Review of 'Money Machine II' <br> by John Colonna, SINCUS <br> Reprinted from SINCUS News, July/August, 1988 

国emember when (not meaning to sound like Andy Rooney...but) you had to buy a board game to play your favorite T.V. quiz program? Well, if "Wheel of Fortune" is your favorite gameshow, it is now available for the 2068 computer. Herb Bowers and ABBA Software offer a 'Wheel of Fortune' cione called 'Money Machine II' that captures the essence of this popular television show. You even get a little
spilte
n amed - Banna Brite' to turn those letters. Perhaps the only thing you don't get are the prizes!

Money Machine II is played very similarly to Wheel of Fortune with the spacebar controlling the wheel that sounds incredibly like the one heard on our T.V. sets. Up to three people can play this family, fun game. Individuals can also play by 'passing' the other two players. There are five rounds of competition before the overall winner is declared. Several hundred puzzles are contained on the original cassette and tapes of 800 each are available. Another program is available to make your own puzzles. To avoid repetition while playing at one sitting, the puzzles are randomly selected without using the same puzzle twice. To avoid an untair advantage from having played previously the players do have the opportunity to choose different puzzles.

Money Machine II interacts quite well with the players with its bright colors, flashing messages, various print sizes, appropriate audio reactions, and thorough documentation. A game clock keeps players on their toes to encourage continuous play. Every detail seems to have been covered. A method for tie breaking after the end of five rounds is provided. Players are reminded about the free spin they previously acquired. 'Banna' lets you know that your phrase contains an apostrophe. And one does know, when the bonus round is coming upl

Approximately one weak after I sent in my order the Money Machine II tape arived.
it came on a LASER C-10 cassette and took about 4 and one-half minutes to load. I had no loading problems and Hert Bowers assures me that all his programs he saved directly from his 2068 without the use of high speed duplicating equipment. He loads
 each tape twice on different recorders to verify their 'loadability'. Herb is '2068' all the way from the labels on the the cassette and mailing package and to the documntation from the 2040 printer. This software package is available for a modest $\$ 12.00$ from

## cats 9 september

Herb Bowers, Sr., ABBA Software, 2588 Woodshire Circle, Chesapeake, VA 23323. The letter this software package rates is an ' $A$ 'l

Editors note: Hert Bowers is a CATS member. He is olonating the ongina Money Machine program tc CAIS for the use of the members. The ad for Money Machine $A$ is or Page 11.
$2^{\text {nd }}$ Annual
PICNIC IN THE PARK

> September 24 ${ }^{\text {th }}$
> 11AM to dark Laurel Picnic Area Greenbelt Park


## ASK MANNIF

Continued from page 8
between them.
Q: How cen I get a Centronics 704 printer going to my 2088 and my CL? I have no documentation on the printer.

A: I is imperative to heve copy of the owner's manual in order to leern how this printer hendies the "control codes". This information can then be incorporated in the word processing or application software which will eventually dive the printer.
You will need heroware interfaces for both the 2088 and the CL, or it might be possible to obtain a "black box" for a fairly substantial sum that would serve as an interface between your Centronics printer and both your computers.
But first you need the owner's manuad for the printer. I would suggest you contact me, Mannie, via this column, and I will provide you with the address and telephone number of the CENTRONICS Company in New England. Then, at your comvenience, you can get in touch with them and tell them what it is you need. include all the information you have on the model and type of your particular printer. If the menual is out of print, ask who might heve a copy you can duplicate. Enctose a SASE and you are likely to get all the information you wantl

## WE WELCOME YOUR OUESTIONS

## Send them to:

## Ast Mannie

## P.O. Box 467

Faifax Station, VA 22030


# IT'S GROUP <br> TIIE AGAN! <br> v. 1.2 Keyboard chips 

 Do your keystrokes glveyou more than you
wanted?

I you tre like me, whenever I get around a computer I forget all about the correct way I leerned to type "way beck" in high school. Now I just use a "one finger" mestod. Not pretty but effective. Well, sort of... I still "fat finger" a lot of keys and, with the CL, it is a clesester. It seems like I spend helf of the time going back and deleting extra cheracters.

But don't worry. Doctor Smith to the rescuel Have I got a deal for youl The version 1.2 keyboard controller chip. I've installed them in all of my machines and they are things of wonder. Now it you slip off a key, you don't get multiple cheracters. In won't make you a perfect typist or correct your grammar, but it could cause you to use fewer expletives while you are producing thet Cuill masterplece.

This is about the simplist mod we've ever done on the CL. Even those that feel intimidated as soon es the cover comes off, shouldn't feel epprehensive about this job. After the case is open, fust remove the big 8049 chip on the bottom right, near the microdrives, and put in the new keyboerd controller chip. That's all there is to k . Simple, huh?

So what's it going to cost? I thought you'd never ask. $\$ 14.50$. brn't that a cheap price to pay for peace of mind? I will be taking names of people who went the chips, AT THE SEPTEMBER MEETNG. For those that cen't meke the meeting or live out od the local area, phone or Wite me. The DEADLNE for ordoring these chirs is Octaber 7.

## RAMDISK for the QL

by Mive Mitchell
BoSTUG Sincletr Tinnex Newaloter

## May/ure 1580

RAMdisking capabilities can increase the versatility of a computer by providing temporary file atorage.

RaMdisk reservee a portion of memory for files. Thereafter you access the file the same way you accese it on dist or on microcartridge. There are two differences: The device 1e called ram as in 'ram_irad'. The other difference is that accese to the file is very much quicker than to plies stored on magnetic madia.

A practical application is in exporting and importing file between PSIOI programe.

QDOS anticipated ram dieking and allowe for up to eight ram diske to be addressed.

Of the two types of raudialeing the first la called dynamic ramdieking and orentes elght zero mectored ramisks.
files are atored in a randiek its size expande up to the available free inary in ram; a 'DIR rami " might ghow -22.0 for a file of 22 sectore. The advantage is that only as much free memory is allocated for ramdisking as ie required.

The other type; published here, is a static raydiek. You determine how many anctare you want when formating the randisk. A certain amount of guessing 1s necesary.

Key-in the fallawing SuparBASIC progran. There 1 : a lot of hex data but it would be 50\% greater in decimal code.

When done, RUI the program with a formatted cartridge in movi. Two thinge happen: You create "randisk_bin", a binary file, and a Superbasic file called ram boot that loads the binary code and generatea a sample at ramdiaking speed.


## FOR SAIE

Silver Reed EX34 daisy wheel printer/typewriter ONLY \$160, FOR A LIMITED TIME

Has standard parallel port and uses Quill printer driver. Price includes 2 extra print wheels and 6 ribbons.

Originally $\$ 150$, now $\$ 75$
Cadillac of mousa/icon systems
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Vernon Smith (703) 978-1835
or CATS PO box


WRx 16 Continued from page 7

| OPTIENAL SNHCHRONIZING ROITINE CALL THIS BEFORE CWNGIMG MODES TO PREUENT SCFEEN FLICKER. ```E.G. CALL STNC JP HRES OR CALLL STMC JP NRML adur hexcode mame hnemcNic```  ```4108 FO4634 LD E,(FRMS) 4108 3A3440 NFH? LD A,(FRHS) 410E BS CP B 410F 28FA JR 2 NFA? 4111 C9 RET``` | TABLE 3I BIPLOT SERUICE ROUTIMES <br> START=16640 BYTESE177 <br> $033,062: 000,024,008: 033 ; 04210011$ $024,003: 033,230: 001: 034,189: 0441$ 205:168:065:221;033:164104412011 205:168:085:221:031:129100212011 $000 ; 033: 000: 032 ; 0241003: 033: 0001$ $0441001,20001014,0541000101110841$ 0531019:237:17412011033:132:0441 $0011032,0001126: 1981128111910241$ 2371038,032;024:022:0301048,0241 018:205,073:065:024:247:038:032: 0241015:038:04810241011120518861 04510241247:253:203:039:21410241 $0041253: 203,059: 150,237107510541$ 044,062:128,041:144,210:17310141 00710891203:058:203:027i2031058: 2031027:203:058:203:0271046:0001 $025,0861121,23010071040,001,0001$ 000,203:002:203,0171041:03210121 253:203:059:086:040,004;20311731 024,002:203:129,016:235:113:201; 2051043:01512531070,052,0581052; 064:1841040:250;0621030:237:10711 $201:$ |
| :---: | :---: |

## W ANTED

## Uncle John Wants You!

HERE'S THE CHANCE TO DO SOMETHING FOR THE GROUP
John Riley, our Tape Librarian, is trying to assemble a tape of Astronomy programs. He needs a volunteer(s) to key in some of the programs. Contact him directly or through the CATS P.O. box.

## ADVEITISNG WNFORMATION

C.A.T.S. will run one free $1 / 4$ page "commercial" ad per one year full (\$18) membership. Noncommercial ads may be submitted at any time. Publication dates for both types will be determined by the Newsletter Editor.

## Advertising Rates

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Saturday，Sepleaber 10，1988 11：00 Rn Hardurare Morkshop



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